CPSC 2600: Full Stack Web Development I

Midterm 1

October 18th, 2022

10:30 am - 12:20 pm

Agreement and Commitment to act with integrity:
As a Langara College student, I hold myself to a high standard of integrity, and I state my promise to act ethically by honoring Langara College's Academic Conduct Policy.

- I acknowledge that the work I submit is my individual effort.
- I did not consult with or receive any help from any person.
- I did not provide help or answers to others.

I understand that suspected misconduct on this exam will be reported to the Office of Student Conduct and Judicial Affairs and, if established, will result in disciplinary sanctions of a grade penalty of up to "F" for the course and the possibility of suspension or dismissal from the college. Other rules that apply to this exam are as follows:

- **No communication with others** is allowed during the exam.
- This is an **open book exam**. Use of written notes/online resources are allowed during the exam.
- Students **must not record** (take pictures, screen capture, etc.) or **share** on any part of this examination including your answers.

Instructions:

a. For Part A, navigate to **Assessments -> Quizzes - > Midterm 1 Part A**
b. For Part B, navigate to **Assessments -> Assignments - > Midterm 1 Part B.**

Section	Marks Obtained
Part A: MCQs and Written Responses	/ 13
Part B: Lab	/ 7
Total Mark:	**/20**

PART A: MCQs and Written Responses (13 points)

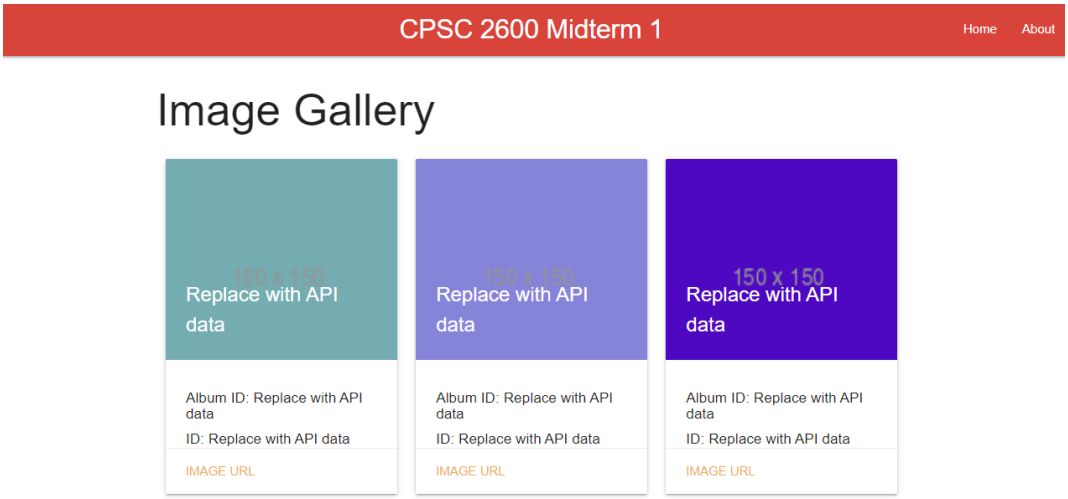
You can access Part A by navigating to the D2L Quizzes section:

- **Assessments -> Quizzes - > Midterm 1 Part A**
- You have 60 minutes to complete Part A.

PART B: Lab (7 points)

Task A: Fetching data from an external API

- Download the starter files, install the node modules and start the project. You should see the following screen on your browser:



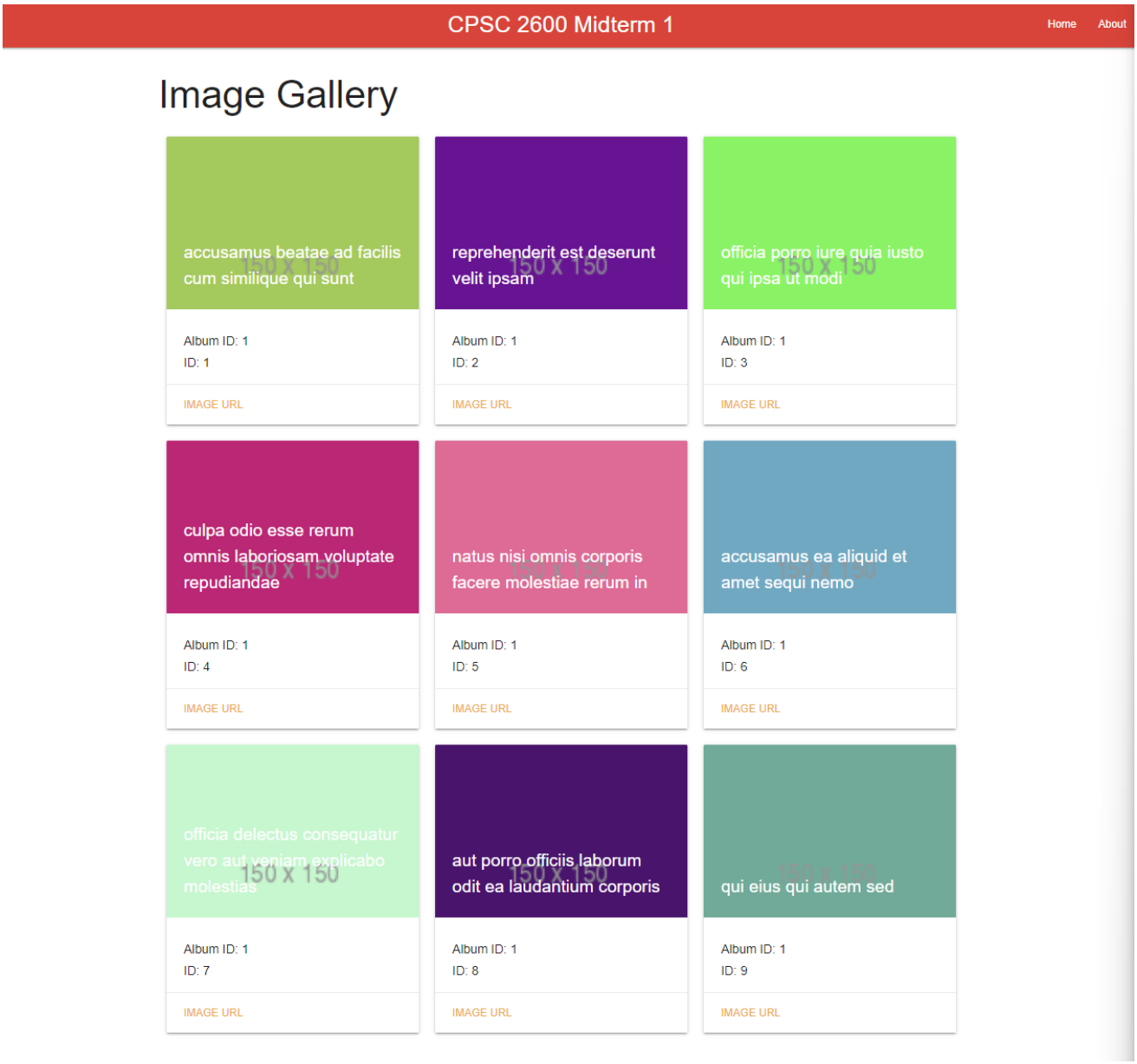
Currently, the **image cards** displayed are coming from a **hardcoded array** in `src/pages/Home.js`.

Your task is to replace this hard coded array with data from an API. You will send an HTTP GET request to an external API to fetch and display the image cards. You can do this either using the axios library or the fetch() API.

- This API endpoint returns an array of objects, where each object represents an image card.

Note that the end point returns 5000 image objects. **You need to display only the first 9**.

Your **final solution** should look like ths:



Note: Remember to update the **`title, id, and album id`** values displayed by using the values returned from the API endpoint.

Task B: Loading Spinner

- Make use of the included **`<Spinner/>`** component - display it when the image cards have not yet loaded.
- Simulate a delay of **2 seconds** in the API request by using the setTimeout() JS function.
- See **demo video** to see it in action.

Task C: Theme Switcher/Toggle (bonus point)

Implement a **theme toggle button** that allows you to switch between dark and light theme modes.

You are free to use a button, select (dropdown), checkbox or a custom toggle component to implement this feature.

Hand in:

Remember to test your submission before handing it in. For Part B, zip your working directory (without the node modules), rename it to <**fullName>_<ID>.zip** and hand it into the **Midterm 1 Part B** assignment folder on D2L.

Checklist:

- **[4.5 marks]** Task A: Fetching data from an external API
- [**2.5 marks]** Task B: Loading spinner
- **[0.5 bonus points]** Task C: Theme toggle

END OF EXAM